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| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><br><i>(Only for new nonprovisional applications under 37 CFR 1.53(b))</i> | <b>Attorney Docket No.</b> <span style="float: right;"><b>6997</b></span>             |  |
|   | <b>First Inventor</b> <span style="float: right;"><b>Michael J. Borden</b></span>     |  |
|   | <b>Title</b>  | <b>Method of Modifying a Volume Mesh Using Sheet Insertion</b> |
|   | <b>Express Mail Label No.</b> <span style="float: right;"><b>EV332387111US</b></span> |  |

|  |   |
|--|---|
| <b>APPLICATION ELEMENTS</b><br><i>See MPEP chapter 600 concerning utility patent application contents.</i> | <b>ADDRESS TO:</b> Assistant Commissioner for Patents<br>Box Patent Application<br>Washington, DC 20231 |
|--|---|

1. ☒ **Fee Transmittal Form** (e.g., PTO/SB/17)  
*(Submit an original and a duplicate for fee processing.)*
2. ☐ **Applicant claims small entity status.**  
See 37 CFR 1.27.
- ☒ **Specification** [Total Pages **27**]  
*(preferred arrangement set forth below)*
- Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the invention
  - Brief Description of the Drawings *(if filed)*
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure

4. ☒ **Drawing(s)** (35 U.S.C. 113) [Total Sheets **13**]
5. **Oath or Declaration** [Total Pages **2**]
- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63 (d))  
*(for continuation/divisional with Box 18 completed)*
- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ **Application Data Sheet.** See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program *(Appendix)*
8. ☐ **Nucleotide and/or Amino Acid Sequence Submission**  
*(if applicable, all necessary)*
- a. ☐ Computer Readable Form (CRF)
- b. **Specification Sequence Listing on:**
- i. ☐ CD-ROM or CD-R (2 copies); or
- i. ☐ paper
- c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☐ **Assignment Papers** (cover sheet & document(s))
10. ☐ **37 CFR 3.753(b) Statement** ☐ **Power of Attorney**  
*(when there is an assignee)*
11. ☐ **English Translation Document** *(if applicable)*
12. ☐ **Information Disclosure Statement (IDS)/PTO-1449** ☐ **Copies of IDS Citations**
13. ☐ **Preliminary Amendment**
14. ☒ **Return Receipt Postcard (MPEP 503)**  
*(Should be specifically itemized)*
15. ☐ **Certified Copy of Priority Document(s)**  
*(if foreign priority is claimed)*
16. ☒ **Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).** Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ **Other:**


18. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

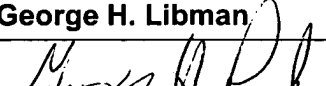
☐ Continuation    ☐ Divisional    ☐ Continuation-in-part (CIP) of prior application No. \_\_\_\_\_

Prior application information:                      Examiner: \_\_\_\_\_                      Group Art \_\_\_\_\_

For **CONTINUATION OR DIVISIONAL APPS** only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**

|                               |  |
|-------------------------------|--|
| Customer Number <b>020567</b> | <div style="border: 1px solid black; padding: 10px;"><b>PATENT &amp; TRADEMARK OFFICE</b><br/><br/><b>0205 7</b></div> |
|-------------------------------|--|

|                          |   |  |                |
|--------------------------|---|--|----------------|
| <b>Name (Print/Type)</b> | <b>George H. Libman</b>   | <b>Registration No. (Attorney/Agent)</b> | <b>27,984</b>  |
| <b>Signature</b>         |  | <b>Date</b>                              | <b>6-23-03</b> |

06/23/03

17175 U.S. PTO

PTO/SB/17 (12-02)

Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL  
FOR FY 2003**Patent fees are subject to annual revision.  
Small Entity payments must be supported by a small entity statement,  
Otherwise large entity fees must be paid. See Forms PTO/SB/09-12.**TOTAL AMOUNT OF PAYMENT (\$)** **1686.00****Complete if Known**

|                      |                   |
|----------------------|-------------------|
| Application Number   |                   |
| Filing Date          | 6/23/03           |
| First Named Inventor | Michael J. Borden |
| Examiner Name        |                   |
| Group / Art Unit     |                   |
| Attorney Docket No.  | SD-6997           |

**METHOD OF PAYMENT (check one)**The Commissioner is hereby authorized to charge  
1. ☒ Indicated fees and credit any over payments to:Deposit Account Number **19-0131**Deposit Account Name **Sandia National Labs**☐ Charge Any Additional  
Fee Required Under  
37 CFR 1.16 and 1.172. **Payment Enclosed:**☐ Check ☐ Money Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description        | Fee Paid |
|----------------|-----------------|----------------|-----------------|------------------------|----------|
| 1001           | 750             | 2001           | 375             | Utility filing fee     | 750      |
| 1002           | 330             | 2002           | 165             | Design filing fee      |          |
| 1003           | 520             | 2003           | 260             | Plant filing fee       |          |
| 1004           | 750             | 2004           | 375             | Reissue filing fee     |          |
| 1005           | 160             | 2005           | 80              | Provisional filing fee |          |

SUBTOTAL (1) **\$ 750****2. EXTRA CLAIM FEES**

|                    | Extra Claims | Fee from below   | Fee Paid |
|--------------------|--------------|------------------|----------|
| Total Claims       | 31           | -20**= 10 X 18 = | 180      |
| Independent Claims | 12           | - 3**= 9 X 84 =  | 756      |
| Multiple Dependent |              |                  |          |

\*\*or number previously paid, if greater; For Reissues, see below.

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description   |
|----------------|-----------------|----------------|-----------------|---|
| 1202           | 18              | 2202           | 9               | Claims in excess of 20                                    |
| 1201           | 84              | 2201           | 42              | Independent claims in excess of 3                         |
| 1203           | 280             | 2203           | 40              | Multiple dependent claim, if not paid                     |
| 1204           | 84              | 2204           | 42              | **Reissue independent claims over original patent         |
| 1205           | 18              | 2205           | 9               | **Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) **(\$936)****FEE CALCULATION (continued)****3. ADDITIONAL FEES**

| Large Fee Code | Entity Fee (\$) | Small Fee Code | Entity Fee (\$) | Fee Description  | Fee Paid |
|----------------|-----------------|----------------|-----------------|--|----------|
| 1051           | 130             | 2051           | 65              | Surcharge - late filing fee or oath                                |          |
| 1052           | 50              | 2052           | 25              | Surcharge - late provisional filing fee cover sheet                |          |
| 1053           | 130             |                |                 | Non-English specification  |          |
| 1804           | 920*            |                |                 | Requesting publication of SIR prior to Examiner action             |          |
| 1805           | 1,840           |                |                 | Requesting publication of SIR after Examiner action                |          |
| 1251           | 110             | 2251           | 55              | Extension for reply within first month                             |          |
| 1252           | 410             | 2252           | 205             | Extension for reply within second month                            |          |
| 1253           | 930             | 2253           | 465             | Extension for reply within third month                             |          |
| 1254           | 1,450           | 2254           | 725             | Extension for reply within fourth month                            |          |
| 1255           | 1,970           | 2255           | 985             | Extension for reply within fifth month                             |          |
| 1401           | 320             | 2401           | 160             | Notice of Appeal   |          |
| 1402           | 320             | 2402           | 160             | Filing a brief in support of an appeal                             |          |
| 1403           | 280             | 2403           | 140             | Request for oral hearing   |          |
| 1451           | 1,510           |                |                 | Petition to institute a public use proceeding                      |          |
| 1452           | 110             | 2452           | 55              | Petition to revive - unavoidable                                   |          |
| 1453           | 1,300           | 2453           | 650             | Petition to revive - unintentional                                 |          |
| 1501           | 1,300           | 2501           | 645             | Utility issue fee (or reissue)                                     |          |
| 1502           | 470             | 2502           | 235             | Design issue fee   |          |
| 1503           | 630             | 2503           | 315             | Plant issue fee  |          |
| 1460           | 130             |                |                 | Petitions to the Commissioner                                      |          |
| 1806           | 180             |                |                 | Submission of Information Disclosure Stmt                          |          |
| 1809           | 750             | 2809           | 375             | Filing a submission after final rejection (37 CFR 1.129(a))        |          |
| 1810           | 750             | 2810           | 375             | For each additional invention to be examined (see 37 CFR 1.129(b)) |          |
|                |                 |                |                 | Other fee (specify)  |          |
|                |                 |                |                 | Other fee (specify)  |          |

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) **(\$)****SUBMITTED BY**Typed or Printed Name **George H. Libman**Signature Date **6-23-03****Complete (if applicable)**Reg. Number **27,984**

Deposit Account User ID

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

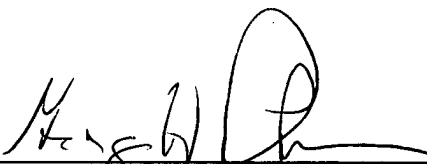
|   |                      |  |                   |
|---|----------------------|--|-------------------|
| <b>NONPUBLICATION<br/>REQUEST UNDER<br/>35 U.S.C. 122(b)(2)(B)(i)</b> | First Named Inventor |  | Michael J. Borden |
|   | Title                | Method of Modifying a Volume Mesh<br>Using Sheet Insertion |                   |
|   | Atty Docket Number   |  | SD-6997           |

I hereby certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

C-23-03

Date

  
Signature

George H. Libman  
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Application may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**